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**INFORMATION DISCLOSURE CITATION  
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09/247,874Applicant  
Duff and Di GiovineFiling Date  
February 10, 1999Group Art Unit  
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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RS	AA 5,686,246	11/11/97	Komman et al.	435	6	08/03/95
RS	AB 5,698,399	12/16/97	Duff et al.	435	6	04/05/96

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
RS	AC WO 96/12792	05/02/96	PCT				X
	AD WO 97/02790	01/30/97	PCT				X
	AE WO 98/01481	01/15/98	PCT				X
	AF WO 98/40517	09/17/98	PCT				X
	AG WO 98/54359	12/03/98	PCT				X

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)

RS	AH	Blakemore et al.; "Association of Graves' Disease With an Allele of the Interleukin-1 Receptor Antagonist Gene", Journal of Clinical Endocrinology and Metabolism, 80 (1): 111-115 (1995).
	AI	Blakemore et al.; "Interleukin-1 Receptor Antagonist Gene Polymorphism As a Disease Severity Factor In Systemic Lupus Erythematosus", Arthritis & Rheumatism 37(9): 1380-1385 (1994).
	AJ	Blakemore et al.; "Interleukin-1 Receptor Antagonist Allele (IL1RN*2) Associated with Nephropathy in Diabetes Mellitus", Hum. Genet. 97: 369-374 (1996).
	AK	Blondelle et al.; "Soluble Combinatorial Libraries of Organic, Peptidomimetic and Peptide Diversities", Trends in Analytical Chemistry 14 (2): 83-92 (1995).
	AL	Clark et al.; "Genomic Sequence for Human Prointerleukin I beta: Possible Evolution from the a Reverse Transcribed Prointerleukin I alpha Gene", Nucleic Acids Research, 14 (20): 7897-7914 (1986).
	AM	Clay et al.; "Interleukin 1 Receptor Antagonist Gene Polymorphism Association With Lichen Sclerosus", Hum. Genet., 94: 407-410 (1994).
	AN	Clay et al.; "Novel Interleukin-1 Receptor Antagonist Exon Polymorphisms and Their use In Allele-Specific mRNA Assessment", Hum. Genet. 97: 723-726 (1996).
	AO	Cork et al.; "An Allele of the Interleukin-1 Receptor Antagonist as a Genetic Severity Factor in Alopecia Areata", The Journal of Investigative Dermatology, 104 (5 Supplement): 158-168 (May 1995).
	AP	Cox et al.; "An Analysis of Linkage Disequilibrium in the Interleukin-1 Gene Cluster, Using a Novel Grouping Method for Multiallelic Markers", Am. J. Hum. Genet., 62: 1180-1188 (1998).
	AQ	Di Giovine et al.; "Single Base Polymorphism at -511 in the Human Interleukin-1 $\beta$ Gene (IL1 $\beta$ )", Human Molecular Genetics, 1 (6): 450 (September 1992).
21	AR	Dinarello and Wolff; "The Role of Interleukin -1 In Disease", The New England Journal of Medicine, 328(2):106-113 (Jan. 14, 1993).

Site-generating  
study

for probeless

8/31/04

AS	Gasparini et al.; "Restriction Site-generating Polymerase Chain Reaction (RG-PCR) for Probeless Detection of Hidden Genetic Variation: Application to the Study of Some Common Cystic Fibrosis Mutations", Molecular and Cellular Probes, 6: 1-7 (1992).
AT	Gibbs et al.; "Detection of Single DNA Base Differences by Competitive Oligonucleotide Priming", Nucleic Acids Research 17(7): 2437-2448 (1989).
AU	Kristiansen et al.; "A Novel Interleukin-1 $\beta$ Gene Polymorphism: Relevance for IDDM Age-at-Onset?", Immunology 47: A 219(Suppl. no.0847), (1998).
AV	Lai et al.; "Reduced Susceptibility To IL-1 And Endotoxin In Transgenic Mice Expressing IL-1 In Their Lens", Cytokine, 8(4): 288-293 (April 1996).
AW	Levine et al.; "Sonic Hedgehog Promotes Rod Photoreceptor Differentiation in Mammalian Retinal Cells In Vitro", The Journal of Neuroscience, 17(16): 6277-6288 (August 15, 1997).
AX	Mansfield et al.; "Novel Genetic Association Between Ulcerative Colitis and the Anti-Inflammatory Cytokine Interleukin-1 Receptor Antagonist", Gastroenterology, 106:637-642 (1994).
AY	McDowell et al.; "a Genetic Association Between Juvenile Rheumatoid Arthritis and a Novel Interleukin-1 $\alpha$ Polymorphism", Arthritis and Rheumatism, 38 (2): 221-228 (February 1995).
AZ	Mølviig et al.; "Endotoxin- Stimulated Human Monocyte Secretion of Interleukin-1, Tumour Necrosis Factor Alpha, and Prostaglandin E <sub>2</sub> Shows Stable Interindividual Differences", Scand. J. Immunol. 27 : 705-716 (1988).
BA	Orita et al.; "Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-Strand Conformation Polymorphisms", Proc. Natl. Acad. Sci. USA 86: 2766-2770 ( April 1989 ).
BB	Pociot et al.; "A TqI Polymorphism in the Human Interleukin-1 $\beta$ (IL-1 $\beta$ ) Gene Correlates With IL-1 $\beta$ Secretion in Vitro", European Journal of Clinical Investigation 22: 396-402 (1992).
BC	Tarlow et al.; "Polymorphism in Human IL-1 Receptor Antagonist Gene Intron 2 is Caused by Variable Numbers of an 86-bp Tandem Repeat", Human Genetics, 91 :403-404 (1993).
BD	Xie et al.; "Mutations of the PATCHED Gene in Several Types of Sporadic Extracutaneous Tumors", Cancer Research 57 :2369-2372 (June 15, 1997).
BE	INTERNATIONAL SEARCH REPORT Mailed on June 7, 2000.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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